Broan-NuTone F403004

BROAN F403004 30-Inch Convertible Under-Cabinet Range Hood User Manual

Brand: Broan-NuTone | Model: F403004

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Broan-NuTone F403004 30-Inch Convertible Under-Cabinet Range Hood. Designed to enhance your kitchen's air quality, this range hood efficiently removes smoke and cooking odors while providing essential lighting for your cooking area. Please read this manual thoroughly before installation and use to ensure safe and optimal performance.



Figure 1: Front view of the Broan-NuTone F403004 Range Hood, showcasing its stainless steel finish and sleek design.

Safety Information

Always adhere to the following safety precautions to reduce the risk of fire, electric shock, or injury:

- Read all instructions before installing or operating this appliance.
- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back-drafting. Follow the heating equipment manufacturer’s guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.

- When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- Ducted fans must always be vented to the outdoors.
- Do not use this unit with any solid-state speed control device.
- To reduce the risk of fire, use only metal ductwork.
- This unit is designed for general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
- To reduce the risk of a range top grease fire:
  - Never leave surface units unattended at high settings. Boilovers cause smoking and greasy spillovers that may ignite. Heat oils slowly on low or medium settings.
  - Always turn hood ON when cooking at high heat or when flambéing food.
  - Clean ventilating fans frequently. Grease should not be allowed to accumulate on fan or filter.
  - Use proper pan size. Always use cookware appropriate for the size of the surface element.
- In the event of a range top grease fire:
  - SMOTHER FLAMES with a close-fitting lid, cookie sheet, or metal tray, then turn off the burner. BE CAREFUL TO PREVENT BURNS.
  - IF THE FLAMES DO NOT GO OUT IMMEDIATELY, EVACUATE AND CALL THE FIRE DEPARTMENT.
  - NEVER PICK UP A FLAMING PAN – You may be burned.
  - DO NOT USE WATER, including wet dishcloths or towels – a violent steam explosion will result.

Setup and Installation

The Broan-NuTone F403004 range hood offers versatile installation options. It can be installed as 3.25" x 10" vertical or horizontal ducting with a damper, 7" round vertical ducting (damper sold separately), or non-ducted with air recirculation (filter sold separately). Ensure the installation is at least 18 inches above the cooktop.

Pre-Installation Checklist:

- Verify all components are present: Range Hood unit, aluminum grease filter, 3-1/4" x 10" damper and adapter, 7" round adapter.
- Ensure proper electrical supply (120 Volts, 2.5 Amps) is available and meets local codes. This unit is designed for hardwiring.
- Determine your desired ventilation method: ducted (vertical/horizontal) or non-ducted. Purchase additional filters (Model 41F for non-ducted) or dampers if necessary.
- Confirm cabinet dimensions allow for the 30-inch hood (Product Dimensions: 17.5"D x 6"W x 30"H).

Installation Steps (Summary):

1. **Prepare the Installation Area:** Turn off power at the circuit breaker. Mark the mounting points and duct opening on the underside of the cabinet.
2. **Remove Components:** Detach the aluminum grease filter from the hood.
3. **Prepare for Ducting:** Based on your chosen ducting method, punch out the appropriate pre-punched holes on the hood for the duct connector. For non-ducted installation, ensure the non-ducted filter (sold separately) is ready for installation.
4. **Mount the Hood:** Secure the hood to the underside of the cabinet using appropriate fasteners. Ensure it is level and securely attached.
5. **Electrical Connection:** This unit requires hardwiring. Connect the electrical wires according to local electrical codes. Ensure proper grounding.

6. **Connect Ductwork (if applicable):** Attach the appropriate duct adapter and connect the ductwork, sealing all joints with metal foil tape.
7. **Install Filters:** Reinstall the aluminum grease filter. If non-ducted, install the charcoal filter (Model 41F, sold separately).
8. **Test Operation:** Restore power and test the fan speeds and lighting functions.

For detailed, step-by-step installation instructions, please refer to the official Installation Manual (PDF).



Figure 2: Dimensional drawing illustrating the various sizes and ducting options for the Broan-NuTone F40000 series range hoods, including the F403004 model.



Figure 3: Comparison diagram showing the airflow for ductless (recirculating filtered air) and ducted (exhausting smoke and odors outside) range hood installations.

Operating Instructions

Your Broan-NuTone F403004 range hood is designed for simple and effective operation.

Fan Operation:

The range hood features a 2-speed rocker switch for fan control. Locate the switch on the front panel of the hood.

- **Low Speed:** Ideal for light cooking, simmering, or maintaining general air circulation.
- **High Speed:** Use for heavy cooking, frying, or when significant smoke and odors are present.

Adjust the fan speed as needed to quickly remove smoke and cooking odors from your kitchen. The fan provides a MAX 230 CFM (Cubic Feet Per Minute) performance.

Lighting Operation:

The integrated lighting system illuminates your cooking area. A separate rocker switch controls the light.

- The built-in light with protective lamp lens accepts up to a 75-watt incandescent bulb (bulb not included).
- Flip the light switch to the ON position to illuminate your cooktop.

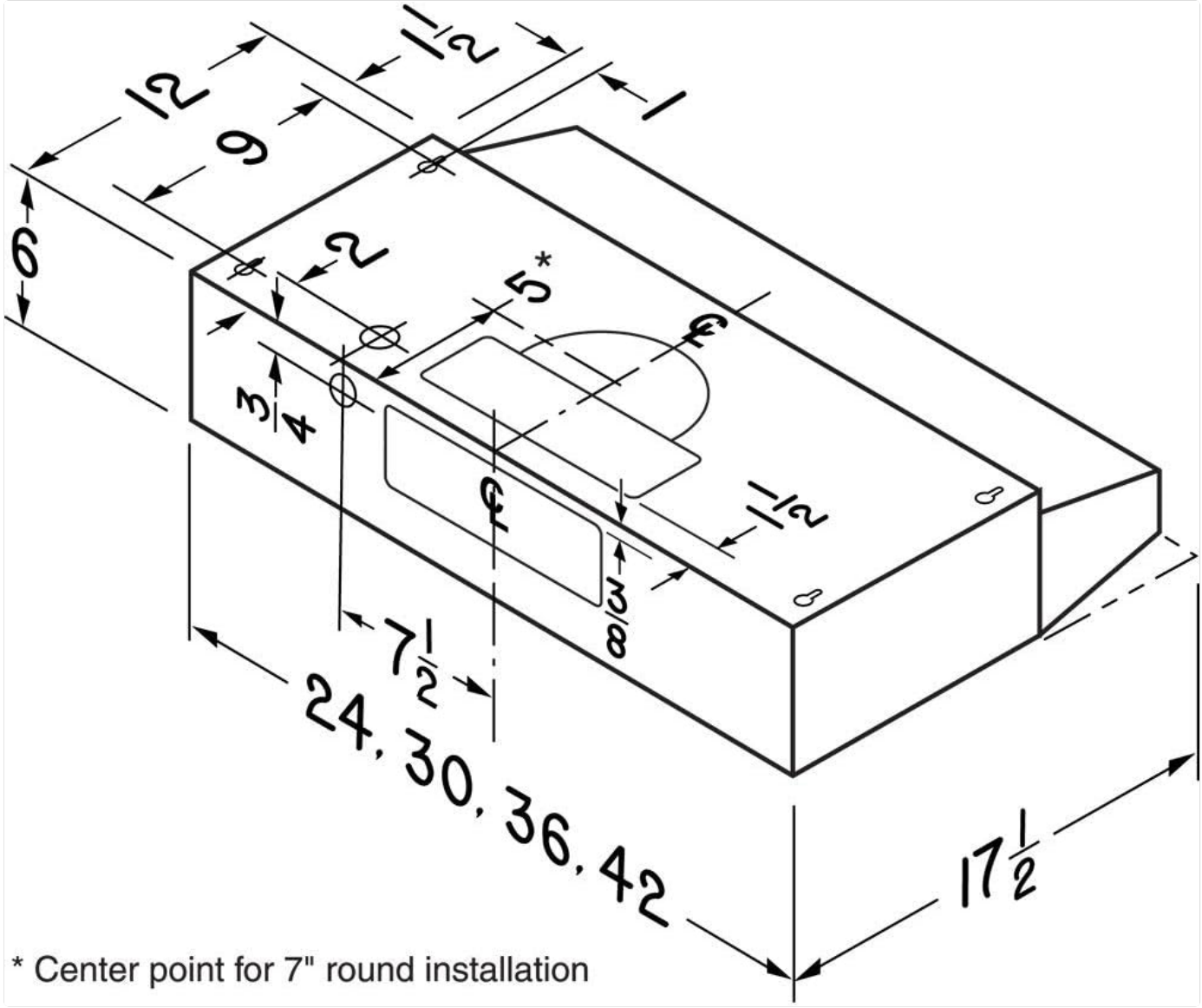


Figure 4: Side view of the range hood, highlighting the rocker switches for fan speed and light control on the front panel.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your range hood.

Cleaning the Aluminum Grease Filter:

The one-piece aluminum grease filter is dishwasher-safe for easy cleaning. Frequent cleaning prevents grease accumulation, which can reduce efficiency and pose a fire hazard.

1. Turn off the range hood and disconnect power if possible.
2. Remove the aluminum grease filter by sliding it out of its retaining slots.
3. Place the filter in your dishwasher for cleaning, or wash by hand with hot water and a mild detergent.
4. Allow the filter to dry completely before reinstalling.
5. Slide the clean filter back into its slots until securely in place.

Replacing the Light Bulb:

The range hood uses a standard incandescent bulb up to 75 watts.

1. Ensure the light switch is OFF and the bulb is cool to the touch.
2. Carefully remove the old bulb from the socket.
3. Insert a new 75-watt maximum incandescent bulb into the socket.
4. Test the light function.

General Cleaning:

Clean the exterior surfaces of the range hood regularly with a soft cloth and mild, non-abrasive detergent. For stainless steel surfaces, use a stainless steel cleaner and polish in the direction of the grain.

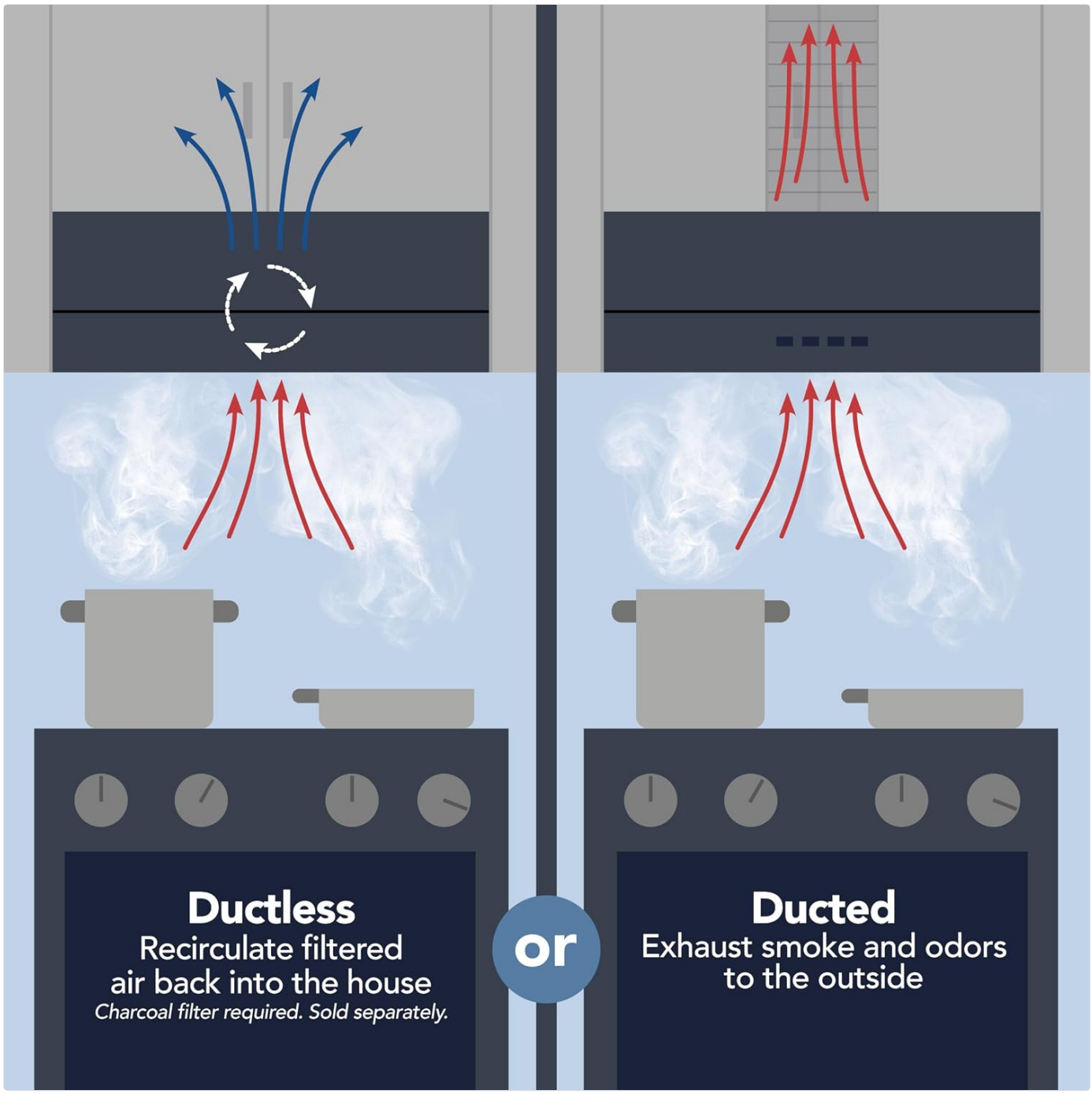


Figure 5: Underside view of the range hood, illustrating the removable aluminum grease filter and the light bulb socket.

Troubleshooting

If you encounter issues with your Broan-NuTone F403004 range hood, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Fan does not operate.	No power to the unit; Fan switch is OFF; Motor failure.	Check circuit breaker/fuse. Ensure fan switch is ON. Contact customer support if motor is suspected.
Light does not work.	Light bulb is loose or burned out; Light switch is OFF; Wiring issue.	Tighten or replace bulb. Ensure light switch is ON. Check wiring connections (qualified person only).
Poor air suction.	Grease filter is clogged; Ductwork is obstructed or improperly installed; Incorrect fan speed.	Clean grease filter. Check ductwork for blockages or leaks. Select higher fan speed. Ensure proper installation for ducted/non-ducted setup.
Excessive noise.	Loose parts; Fan blade obstruction; Improper installation; Ductwork issues.	Check for loose screws or components. Clear any obstructions from fan blade. Verify secure installation. Inspect ductwork for kinks or restrictions.

If the problem persists after attempting these solutions, please contact Broan-NuTone customer support.

Specifications

Key technical specifications for the Broan-NuTone F403004 Range Hood:

Model: F403004

Dimensions (D x W x H): 17.5" x 30" x 6"

Material: Stainless Steel

Air Flow Capacity: MAX 230 CFM (Cubic Feet Per Minute)

Noise Level: 6.5 Sones

Number of Speeds: 2

Controls Type: Rocker Switch

Voltage: 120 Volts

Amperage: 2.5 Amps

Wattage (Light): Up to 75 watts (incandescent bulb, not included)

Filter Type: Aluminum (dishwasher-safe)

Installation Type: Under Cabinet Mount

Ventilation Type: Convertible (Ducted 3.25" x 10" vertical/horizontal, 7" round vertical, or Non-ducted)

Item Weight: 12 Pounds

Certifications: UL-Listed, HVI-2100 Certified



Figure 6: Sone level comparison chart, illustrating that a lower Sone value indicates a quieter range hood operation. The F403004 operates at 6.5 Sones.

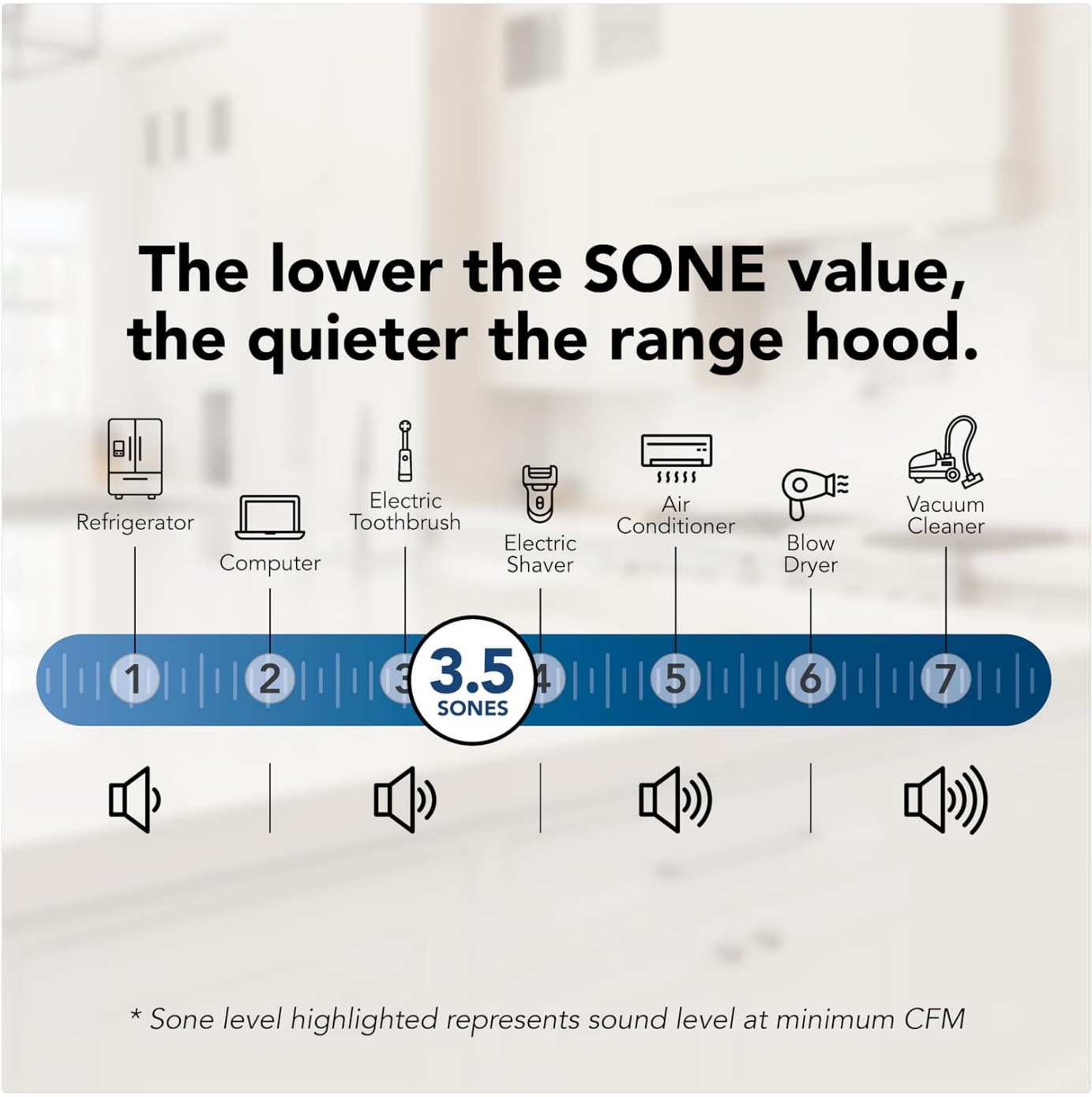


Figure 7: The Broan-NuTone F403004 range hood seamlessly integrated into a kitchen environment, demonstrating its under-cabinet installation.

Warranty and Support

Your Broan-NuTone F403004 Range Hood comes with a **1-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

What the Warranty Covers:

- Repair or replacement of any part that fails due to a manufacturing defect.

What the Warranty Does Not Cover:

- Damage caused by improper installation, accident, misuse, abuse, negligence, or unauthorized repair.
- Normal wear and tear, including filters and light bulbs.
- Products used for commercial or industrial purposes.

Customer Support:

For warranty claims, technical assistance, or to purchase replacement parts, please contact Broan-NuTone customer service. Have your model number (F403004) and proof of purchase ready when contacting support.
You can also visit the official Broan-NuTone store for more information and product resources:Broan-NuTone Store.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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